TEJUS

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s A.G Narayanaswamy

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

	Date:	**30-08-2021**
Layer no. or level	Sub Grade I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage / Location	**Chokkana Halli main road@Ch 400**	**Chokkana Halli main road@Ch 500**
Wt. of wet material from hole (Ww) gms.	6298	6290
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	9734	9708
Wt. of sand in cone (w3) gms.	875	875
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	4391	4417
Bulk density of sand (γs)gm/cc	1.316	1.316
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	1.89	1.87
Moisture meter reading(moisture content)	9.00	8.50
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	1.73	1.73
MDD	1.81	1.81
OMC	9.40%	9.40%
% compaction obtained	95.67	95.43
% compaction required	95%	95%

Sri Sundaresh Bhat Sr method Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

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Consultant's Representative

TEJUS CONSULTANTS

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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency	
Client	Bruhat Bengaluru Mahanagara Palike	
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s A.G Narayanaswamy	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)		
	Date:	**30-08-2021**
Layer no. or level	Sub Grade I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage / Location	**Chokkana Halli main road@Ch 200**	**Chokkana Halli main road@Ch 300**
Wt. of wet material from hole (Ww) gms.	6250	6350
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	9740	9700
Wt. of sand in cone (w3) gms.	875	875
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	4385	4425
Bulk density of sand (γs)gm/cc	1.316	1.316
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	1.88	1.89
Moisture meter reading(moisture content)	8.50	9.00
Result		
FDD(Wt of the dry material)=(100γb/100+mc)gm/cc	1.73	1.73
MDD	1.81	1.81
OMC	9.40%	9.40%
% compaction obtained	95.51	95.72
% compaction required	95%	95%

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BBMP, Bangalore - 92

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Consultant's Representative

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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s A.G Narayanaswamy

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

	Date:	**30-08-2021**
Layer no. or level	Sub Grade I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage / Location	**Chokkana Halli main road@Ch 0**	**Chokkana Halli main road@Ch 100**
Wt. of wet material from hole (Ww) gms.	6298	6315
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	9734	9708
Wt. of sand in cone (w3) gms.	875	875
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	4391	4417
Bulk density of sand (γs)gm/cc	1.316	1.316
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	1.89	1.88
Moisture meter reading(moisture content)	9.00	8.50
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	1.73	1.73
MDD	1.81	1.81
OMC	9.40%	9.40%
% compaction obtained	95.67	95.81
% compaction required	95%	95%

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Consultant's Representative

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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	WMM	**Date of Sampling**	**05-09-2021**
Sample Location	Srinivasa Garden Layout	**Date of Testing**	**06-09-2021**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	363.00	374.00	342.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	272.00	280.00	258.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	91.00	94.00	84.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.07	25.13	24.56	
5	Average Aggregate impact value	(%)	24.92			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
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Consultant's Representative

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	WMM	**Date of Sampling**	**05-09-2021**
Sample Location	Srinivasa Garden Layout	**Date of Testing**	**06-09-2021**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	363.00	374.00	342.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	272.00	280.00	258.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	91.00	94.00	84.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.07	25.13	24.56	
5	Average Aggregate impact value	(%)		24.92		Max - 30 %

Remarks Satisfactory / Not Satisfactory

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Asst. Executive Engineer Project Division BBMP, Bangalore - 92

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM	**Proposed Use**	**WMM**
Sample Location	Chokkanahalli Layout Main Road	**Date of Sampling**	**05-09-2021**
		Date of Testing	**06-09-2021**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	614	82	524	76
16.0	12.5	1130	120	980	115
12.5	10.0	775	56	720	56
10.0	6.3	620	65	566	45
Total		**3139**	**323**	**2790**	**292**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.29
Elongation Index(%):	10.47
Combined FI+EL (%)	20.76

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Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM	**Proposed Use**	**WMM**
Sample Location	Chokkanahalli Layout Main Road	**Date of Sampling**	**05-09-2021**
		Date of Testing	**06-09-2021**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	624	83	520	75
16.0	12.5	1142	122	1012	118
12.5	10.0	790	65	745	65
10.0	6.3	625	56	565	42
Total		**3181**	**326**	**2842**	**300**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.25
Elongation Index(%):	10.56
Combined FI+EL (%)	20.80

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
CONSULTANTS

Name of Work	:	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	Sri.A G. Narayana Swamy.
Date of Testing	:	06-09-2021
Type of Mix	:	WMM
Sample I/D	:	WMM 2

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	Chokkanahalli Layout Main Road	Date of Sampling:	05-09-2021
		Date of testing:	06-09-2021
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	369	369	3.69	96.31	95-100
22.4	2415	2784	27.84	72.16	60-80
11.2	2480	5264	52.64	47.36	40-60
4.75	1488.0	6752	67.52	32.48	25-40
2.36	795.0	7547	75.47	24.53	15-30
0.6	830.0	8377	83.77	16.23	8.0-22.0
0.075	995.0	9372	93.72	6.28	0-8
Pan	628.0	10000			
Total	10000.0				

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Consultant's Representative

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Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	Sri.A G. Narayana Swamy.
Date of Testing	:	06-09-2021
Type of Mix	:	WMM
Sample I/D	:	WMM 1

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	Chokkanahalli Layout Main Road	Date of Sampling:	05-09-2021
		Date of testing:	06-09-2021
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	389	389	3.89	96.11	95-100
22.4	2325	2714	27.14	72.86	60-80
11.2	2492	5206	52.06	47.94	40-60
4.75	1488.0	6694	66.94	33.06	25-40
2.36	790.0	7484	74.84	25.16	15-30
0.6	866.0	8350	83.50	16.50	8.0-22.0
0.075	990.0	9340	93.40	6.60	0-8
Pan	660.0	10000			
Total	10000.0				

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Yelahanka Zone
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Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	Sri.A G. Narayana Swamy.
Date of Testing	:	06-09-2021
Type of Mix	:	WMM
Sample I/D	:	WMM 1

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	Chokkanahalli Layout Main Road	Date of Sampling:	05-09-2021
		Date of testing:	06-09-2021
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
4.75	389	389	3.89	96.11	95-100
22.4	2325	2714	27.14	72.86	60-80
11.2	2492	5206	52.06	47.94	40-60
4.75	1488.0	6694	66.94	33.06	25-40
2.36	790.0	7484	74.84	25.16	15-30
0.6	866.0	8350	83.50	16.50	8.0-22.0
0.075	990.0	9340	93.40	6.60	0-8
Pan	660.0	10000			
Total	10000.0				

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Consultant's Representative

Project	Development works to be under taken in ward no.5 of BBMP around solidwaste disposal procesing units bellalli bagaluru and kattigenalli , byatarayanapura constituncy ,
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

	Date:	**06-09-2021**
Layer no. or level	WMM I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage	**Chokkanahalli Layout Main Road at Ch:205**	**Chokkanahalli Layout Main Road at Ch:335**
Wt. of wet material from hole (Ww) gms.	5984	5991
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10595	10594
Wt. of sand in hole+ cone (w3) gms.	4405	4406
Wt. of cone gms.	1080	1080
Wt. of sand gms.	3325	3326
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material)(γb)=(Ww/w4*(γs))gm/cc	2.38	2.38
Moisture meter reading(moisture content)	6.40	6.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.23	2.24
MDD	2.27	2.27
OMC	6.10%	6.10%
% compaction obtained	98.36	98.63
% compaction required	98%	98%

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Consultant's Representative

Assistant Executive Engineer
BBMP, Bangalore - 92

Project	Development works to be under taken in ward no.5 of BBMP around solidwaste disposal procesing units bellalli bagaluru and kattigenalli , byatarayanapura constituncy ,	
Client	Bruhat Bengaluru Mahanagara Palike	
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri.A G. Narayana Swamy.	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)		
	Date:	**06-09-2021**
Layer no. or level	WMM I layer	
Depth of hole	200mm	
Field density:	1	2
Chainage	**Chokkanahalli Layout Main Road at Ch:65**	**Chokkanahalli Layout Main Road at Ch:130**
Wt. of wet material from hole (Ww) gms.	5989	5995
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10595	10594
Wt. of sand in hole+ cone (w3) gms.	4405	4406
Wt. of cone gms.	1080	1080
Wt. of sand gms.	3325	3326
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.38	2.38
Moisture meter reading(moisture content)	6.40	6.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.23	2.24
MDD	2.27	2.27
OMC	6.10%	6.10%
% compaction obtained	98.44	98.69
% compaction required	98%	98%

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Asst Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

Project	Development works to be under taken in ward no.5 of BBMP around solidwaste disposal procesing units bellalli bagaluru and kattigenalli , byatarayanapura constituncy ,	
Client	Bruhat Bengaluru Mahanagara Palike	
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri.A G. Narayana Swamy.	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)		
	Date:	**06-09-2021**
Layer no. or level	WMM I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage	**Chokkanahalli Layout Main Road at Ch:65**	**Chokkanahalli Layout Main Road at Ch:130**
Wt. of wet material from hole (Ww) gms.	5989	5995
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10595	10594
Wt. of sand in hole+ cone (w3) gms.	4405	4406
Wt. of cone gms.	1080	1080
Wt. of sand gms.	3325	3326
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4* (γs))gm/cc	2.38	2.38
Moisture meter reading(moisture content)	6.40	6.20
Result		
FDD(Wt. of the dry material)=(100γb/100+mc)gm/cc	2.23	2.24
MDD	2.27	2.27
OMC	6.10%	6.10%
% compaction obtained	98.44	98.69
% compaction required	98%	98%

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Asst. Executive Engineer
Project Division
Yelahanka Zone 92
BBMP, Bangalore

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s A.G Narayanaswamy

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

	Date:	**07-09-2021**
Layer no. or level	Sub Grade I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage / Location	**Chokkana Halli main road@Ch 1000**	**Chokkana Halli main road@Ch 1200**
Wt. of wet material from hole (Ww) gms.	6290	6300
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	9734	9708
Wt. of sand in cone (w3) gms.	875	875
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	4391	4417
Bulk density of sand (γs)gm/cc	1.316	1.316
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	1.89	1.88
Moisture meter reading(moisture content)	8.70	8.50
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	1.73	1.73
MDD	1.81	1.81
OMC	9.40%	9.40%
% compaction obtained	95.82	95.58
% compaction required	95%	95%

Note:

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work

Consultant's Representative

Asst. Executive Engineer, Project Division-1, Yelahanka Zone, BBMP, Bangalore - 92

TEJUS

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency	
Client	Bruhat Bengaluru Mahanagara Palike	
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s A.G Narayanaswamy	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)		
	Date:	**07-09-2021**
Layer no. or level	Sub Grade I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage / Location	**Chokkana Halli main road@Ch 800**	**Chokkana Halli main road@Ch 900**
Wt. of wet material from hole (Ww) gms.	6299	6315
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	9734	9708
Wt. of sand in cone (w3) gms.	875	875
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	4391	4417
Bulk density of sand (γs)gm/cc	1.316	1.316
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*γs))gm/cc	1.89	1.88
Moisture meter reading(moisture content)	8.90	8.80
Result		
FDD(Wt of the dry material)=(100γb/100+mc)gm/cc	1.73	1.73
MDD	1.81	1.81
OMC	9.40%	9.40%
% compaction obtained	95.78	95.54
% compaction required	95%	95%

Asst. Executive Engineer
Project Division
Yelahanka No. 2
BBMP, Bangalore - 92

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Consultant's Representative

TEJUS CONSULTANTS

TEJUS

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s A.G Narayanaswamy

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

	Date:	**07-09-2021**
Layer no. or level	Sub Grade I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage / Location	**Chokkana Halli main road@Ch 600**	**Chokkana Halli main road@Ch 700**
Wt. of wet material from hole (Ww) gms.	6270	6320
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	9734	9708
Wt. of sand in cone (w3) gms.	875	875
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	4391	4417
Bulk density of sand (γs)gm/cc	1.316	1.316
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	1.88	1.88
Moisture meter reading(moisture content)	8.50	9.00
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	1.73	1.73
MDD	1.81	1.81
OMC	9.40%	9.40%
% compaction obtained	95.69	95.44
% compaction required	95%	95%

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Consultant's Representative

Asst. Executive Engineer
Project Division
Yelahanka Zone - 02
BBMP, Bangalore

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM	**Proposed Use**	**WMM**
Sample Location	Rajanna House Road from Thirumenahalli Road to Agrahara Layout Main Road	**Date of Sampling**	**12-09-2021**
		Date of Testing	**13-09-2021**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	629	88	522	72
16.0	12.5	1142	122	1012	118
12.5	10.0	790	65	745	65
10.0	6.3	625	56	565	42
Total		**3186**	**331**	**2844**	**297**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.39
Elongation Index(%):	10.44
Combined FI+EL (%)	20.83

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Consultant's Representative

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM	**Proposed Use**	**WMM**
Sample Location	Thirumenahalli Main Road	**Date of Sampling**	**12-09-2021**
		Date of Testing	**13-09-2021**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	611	82	521	75
16.0	12.5	1130	120	980	115
12.5	10.0	775	56	720	56
10.0	6.3	620	65	566	45
Total		**3136**	**323**	**2787**	**291**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.30
Elongation Index(%):	10.44
Combined FI+EL (%)	20.74

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Asst. Executive Engineer
Project Division
Yelahanka Zone, 02
BBMP, Bangalore

Consultant's Representative

TEJUS
CONSULTANTS

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	WMM	**Date of Sampling**	**12-09-2021**
Sample Location	Srinivasa Garden Layout	**Date of Testing**	**13-09-2021**

Sl. No.	Description		Test No.			Spec Limit (%)
			1	2	3	
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	363.00	374.00	342.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	272.00	280.00	258.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	91.00	94.00	84.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.07	25.13	24.56	
5	Average Aggregate impact value	(%)	24.92			Max - 30 %

Remarks Satisfactory / Not Satisfactory

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Consultant's Representative

Assistant Executive Engineer
Project Division
Yelahanka Zone
BBMP Bangalore - 92

TEJUS
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Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	WMM	**Date of Sampling**	**12-09-2021**
Sample Location	Agrahara Layout Main Road	**Date of Testing**	**13-09-2021**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	362.00	372.00	342.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	272.00	280.00	259.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	90.00	92.00	83.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	24.86	24.73	24.27	
5	Average Aggregate impact value	(%)	24.62			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

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